

In the Specification

Please amend the paragraph beginning at page 5, line 16:

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**Brief Description of the Drawings**

01 The foregoing features of the invention will be more readily understood by reference to the following detailed description, taken with reference to the accompanying drawings, in which:

Fig. 1 is a diagram of a prior art x-ray fluorescence analyzer which uses three radiation sources and provides a changing mechanism for the sources;

Fig. 2 is a diagram of one embodiment of an apparatus for determining the composition of an alloy or precious metal that uses only one radiation source.

Fig. 2A is a diagram in which the radiation source is ring-shaped.

Fig. 3 is a flow chart of the steps used to determine the composition of a material using the full spectrum of Americium.

Fig. 4 is a flow chart of the steps used to remove the Rayleigh lines from the fluoresced spectrum of the material.

Fig. 5 is a graph showing the Rayleigh scattering for various materials;

Fig. 6 is a graph showing a fluoresced spectrum with the background Rayleigh and Compton scattering removed; and

Fig. 7 is a flow chart of the steps used to remove the Compton Scattering lines from the fluoresced spectrum of the material.

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